



KBM100

High temperature electrical insulator approved to ISO 10993

2:1 Shrink Ratio

Shrink Temperature >155°C

Compatible with Gamma, ETO, Steam and Dry Heat Sterilisation Methods

Excellent Abrasion Resistance

Excellent Chemical Resistance

Operating Temperature -55°C to +175°C

KBM100 is a semi-rigid tubing offering superior electrical, chemical, and cut-through and abrasion resistance. KBM100 has a continuous operating temperature of 175°C and can easily withstand 350°C for short periods. KBM100 has been designed for the medical industry and is tested and certified to the FDA USP Biological Test Classification VI, and holds a further approval to ISO 10993. It is compatible with autoclave, gamma, ETO, steam and dry-heat sterilisation.

Technical Data

| | | | |
|-----------------------------|--|-----------------------|---|
| General | | Chemical | |
| Installation temperature | 175°C | Fluid resistance | At 23°C for 24 hours for the following fluids: |
| Longitudinal change | +0% -10% | | Aircraft fuel, ISO1817 test liquid B |
| Concentricity | 70% minimum | | Phosphate ester based to ISO 1817 test liquid 103 |
| Tensile strength | 34.5 MPa | | Lubricating oil ester based to ISO 1817 test liquid 101 |
| Electrical | | Specifications | |
| Dielectric strength | Sizes 1/2" and below 31.5 kV/mm min Sizes above 1/2" 23.6 kV/mm min | FDA USP CI VI | |
| Thermal | | ISO 10993 | |
| Heat ageing | 168 hours at 200°C 4 hours at 300°C | MAF-444 | |
| Low temperature flexibility | 4 hours at -55°C | | |
| Flammability | | | |
| Fire hazard | Duration of burning 15s max (ASTM D876) | | |

| Ordering Size (Inches) | Minimum ID Supplied (mm) | Maximum ID Recovered (mm) | Recovered Wall Thickness (mm) | Standard Spool Size (m) |
|------------------------|--------------------------|---------------------------|-------------------------------|-------------------------|
| 1/16 | 1.6 | 0.80 | 0.25 | 1524 |
| 3/32 | 2.4 | 1.20 | 0.25 | 762 |
| 1/8 | 3.2 | 1.60 | 0.25 | 381 |
| 3/16 | 4.8 | 2.40 | 0.25 | 381 |
| 1/4 | 6.4 | 3.20 | 0.33 | 381 |
| 3/8 | 9.5 | 4.70 | 0.33 | 152 |
| 1/2 | 12.7 | 6.40 | 0.33 | 152 |
| 3/4 | 19.1 | 9.50 | 0.43 | 76 |
| 1 | 25.4 | 12.70 | 0.48 | 76 |

Standard approved colours: Black and transparent.

Non-standard approved colours: Blue and grey.

Other colours to special quotation

Full details on technical specifications, test methods and values are available on request.

PLASTRONIC®
PMG Company